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PHOTOGRAPHIC INTERPRETATION REPORT

SAM LAUNCH COMPLEX
SHUANG-CHENG-TZU MISSILE TEST CENTER
CHINA

[redacted] 25X1

OCTOBER 1967
COPY 116
21 PAGES

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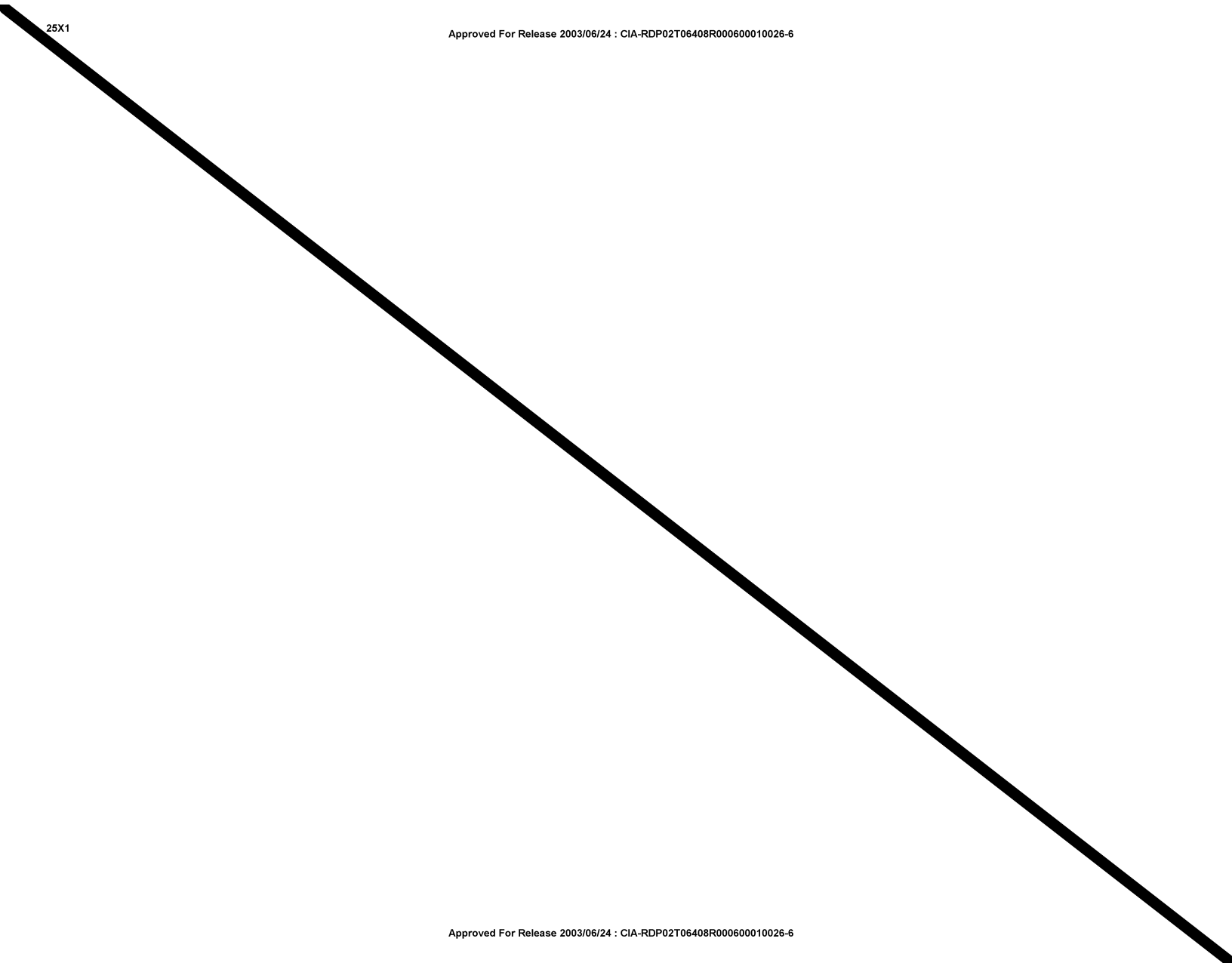

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PHOTOGRAPHIC INTERPRETATION REPORT

SAM LAUNCH COMPLEX
SHUANG-CHENG-TZU MISSILE TEST CENTER
CHINA

OCTOBER 1967

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

PREFACE

This report has been prepared to satisfy CIA Requirement C-DI6-83,404 which requested a basic report on the SAM Complex at the Shuang-cheng-tzu Missile Test Center, China. Detailed photographic analysis was requested of the following areas: the Launch Area, the Instrumentation Control Center and Downrange Instrumentation Sites, the Housing and Support Area, the Assembly and Checkout Facility, the Revetted Storage and Handling Area, and the Deployed SA-2 Site and Barracks Area. This report covers all of the above except the Assembly and Checkout Facility and the Revetted Storage and Handling Area, which are included in [redacted] une 1967. 1/

All available [redacted] coverage was utilized beginning with [redacted] Detailed photo interpretation is based primarily on the following missions: [redacted] was received too late to be used as the basis for line drawings included in this report. However, annotated photographs and detailed mensuration from [redacted] have been included. Future reports will provide updated analyses of significant activity observed since [redacted] and will include rectified line drawings based on [redacted] missions.

The horizontal and vertical dimensions included in this report are computed values, as derived, and do not reflect numerical roundoff. The dimensions derived from [redacted] photography are accurate to within [redacted] or 5 percent, whichever is greater; those derived from [redacted] photography are accurate to within plus or minus 5 feet or 5 percent, whichever is greater. The mathematical transformation of identifiable image points and coordinate values, by computer, corrects for camera and attitude (pitch, roll, and yaw) induced distortions but does not correct for displacement due to ground relief and object height.

TABLE OF CONTENTS

LIST OF ILLUSTRATIONS

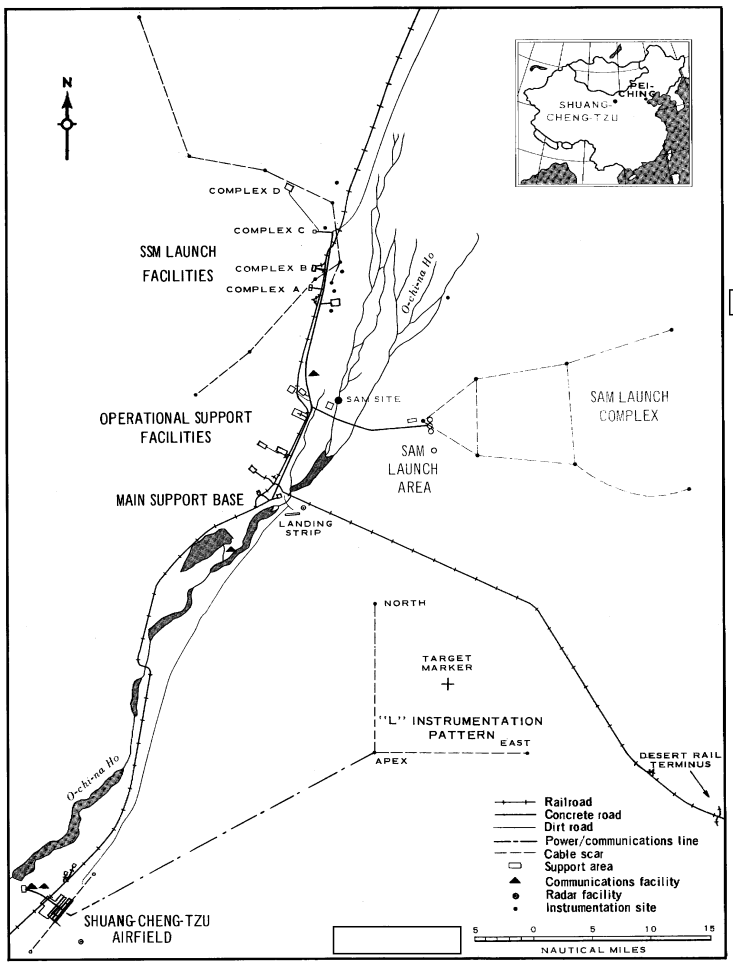

FIGURE 1. LOCATION OF SAM FACILITIES, SHUANG-CHENG-TZU MISSILE TEST CENTER.

INTRODUCTION

The Shuang-cheng-tzu Missile Test Center (SCTMTC) is located approximately 62 nautical miles (nm) northeast of the town of Shuang-cheng-tzu along the O-chi-na Ho river. In addition to the surface-to-air missile (SAM) facilities, the test center contains surface-to-surface missile (SSM) launch facilities, support and storage areas, and a large operational airfield.

The SAM R&D complex, with center coordinates of 41-04N 100-30E, is approximately 15 nm southeast of SSM Launch Area A and 50 nm northeast of the main Shuang-cheng-tzu airfield. The SAM facilities (Figures 1 and 2) are composed of 6 principal areas--the Launch Area, the Housing and Support Area, the Instrumentation Facilities, the Assembly and Check-out Area, the Revetted Storage and Handling Area, and the Deployed SA-2 Site and Barracks Area. All facilities except the Deployed SA-2 Site were present on initial photography of

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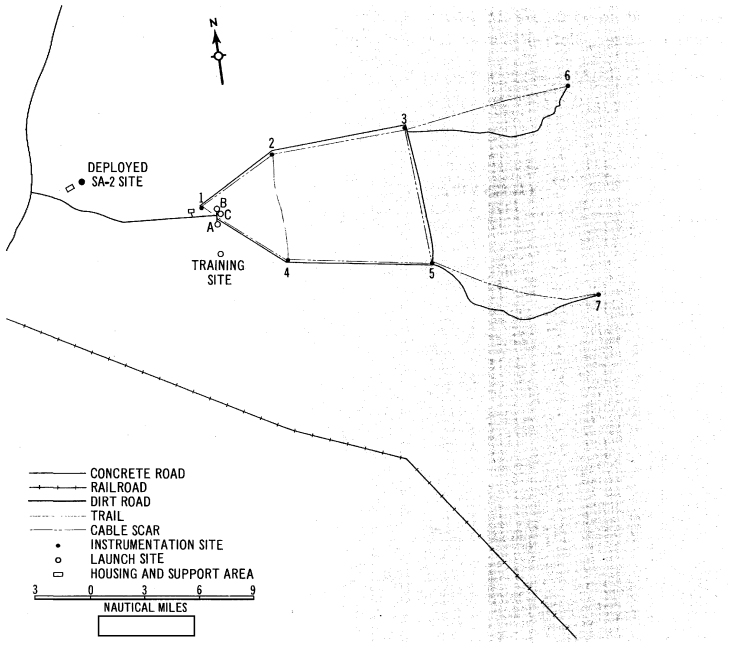

FIGURE 2. SAM LAUNCH FACILITIES, SCTMTC.

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Notable activity that has occurred since [redacted] includes the revetting of 2 launch positions at Launch Site B, and the construction of 2 downrange instrumentation sites, a 5-position launch site, and numerous buildings in the Housing and Support Area, and the Barracks Area.

SAM LAUNCH AREA

The SAM Launch Area (Figures 3-9) is located at 41-04 -26N 100-30-32E, approximately 11 nm east of the principal north-south road serving the SCTMTC. The area presently consists of 4 launch sites; 2 complete and active, 1 under construction, and a training site. All 4 sites are oriented to the east on an azimuth of 90 degrees.

LAUNCH SITES A AND B

The 2 active sites, designated A and B (Figures 3 and 4) from south-to-north, are approximately 5,500 feet apart, center-to-center. Both sites were complete when observed in [redacted]. Since Sites A and B are mirror-image sites, several identical or similar features can be observed:

1. Each site has an unrevetted guidance area and 6 hard-surfaced launch positions.
2. Each site has a fire control building, a large revetted hardstand, and several small similar buildings.
3. Each site is single fenced, with corner guard towers and a security gate.
4. Each site is connected by cable scars to the Instrumentation Control Center.

The major differences between Sites A and B consist of the following items:

1. Two of the 6 launch positions at Launch Site B are revetted. No positions at Site A have been revetted.
2. A structure which provides all-weather coverage for the electronic support equipment is located in the guidance area of Site B. No such structure is at Site A.

ITEM	DESCRIPTION
1	GUARD TOWER
2	SHED
3	SHED
4	SHED
5	SHED
6	HIP-ROOFED FIRE CONTROL BUILDING
7	U/I STRUCTURE
8	REVETTED HARDSTAND
9	FLAT-ROOFED SECURITY BUILDING
10	SHED
11	SHED
12	SHED
13	SHED
14	FLAT-ROOFED SECURITY BUILDING
15	SHED
16	SHED
17	SHED
18	SHED
19	HIP-ROOFED FIRE CONTROL BUILDING
20	U/I UNROOFED WALLED STRUCTURE
21	FLAT-ROOFED GUIDANCE EQUIPMENT STORAGE BUILDING
22	SHED
23	SHED

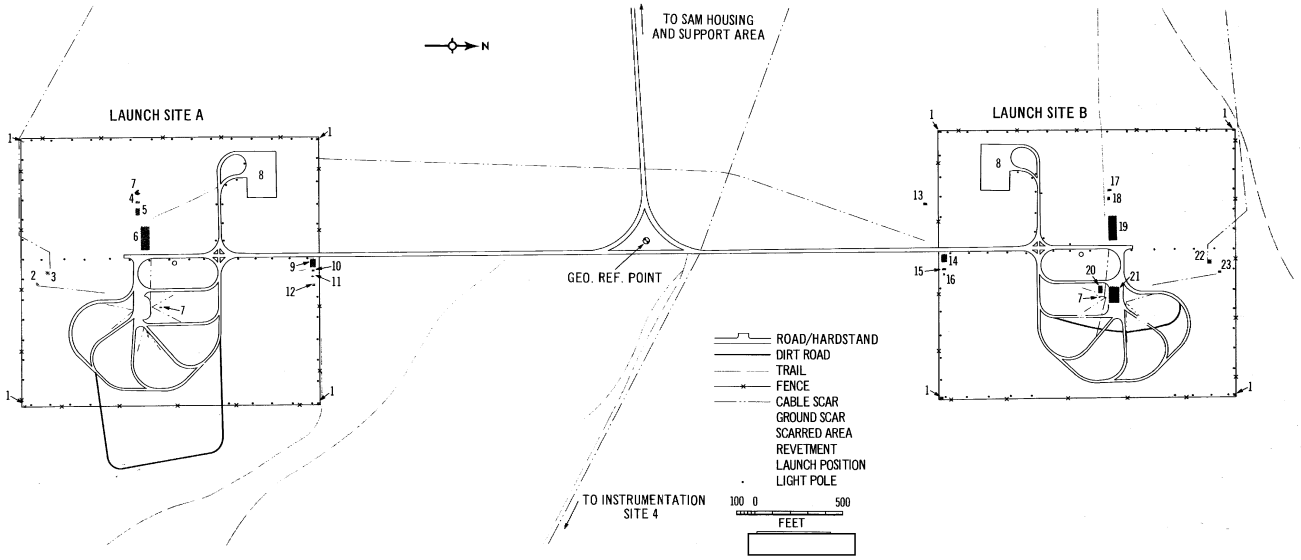

FIGURE 3. SAM LAUNCH AREA, SCTMTC.

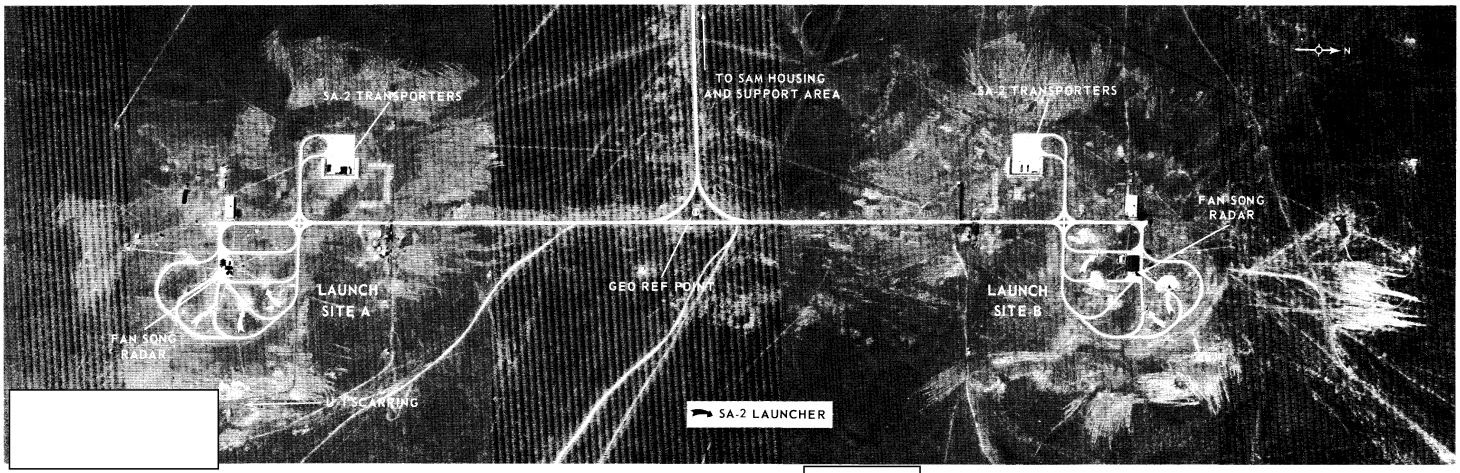

FIGURE 4. SAM LAUNCH AREA, SCTMTC

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3. Unidentified activity (Figures 4 and 5), consisting of a loop road, 3 small structures, and ground scarring, is located in front of Site A just east of the security fence. No such activity has been observed at Site B.

Since [redacted] the only major construction at Sites A and B has been the addition of the 2 launch revetments at Launch Site B in early [redacted] and the unidentified activity at Launch Site A which was first observed in [redacted]

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The first mission of good interpretability, [redacted] revealed SA-2 launchers and FAN SONG radar at Launch Site B, thus showing evidence of activity in [redacted] Coverage of [redacted] has provided the best detail, to date, of the SAM Launch Area (Figures 5, 6, 7, and 8). Significant activity included an unidentified FAN SONG radar at Launch Site A, SA-2 missile transporters and launchers at both sites, and a [redacted] SA-2 missile on a transporter in front of the southern revetted launch position at Launch Site B. Testing and training activity, indicated by the presence of SA-2 launchers, guidance equipment, and missile transporters, has been identified periodically between [redacted] and can be traced chronologically in Tables 1 and 2.

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LAUNCH SITE C

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The new launch site (Figures 5 and 8), presently under construction, is located between Sites A and B. It was identified in [redacted] and was not present in [redacted] Although the configuration is fan shaped, and therefore similar to Sites A and B, the site presently has only 5 launch positions, all unrevetted, a smaller guidance area (approximately 65 by 45 feet), and shorter overall length/width dimensions than Sites A and B. A cable scar extends from the guidance area to the fire control buildings at Sites A and B. On coverage [redacted] an unidentified pole was present in each corner of the guidance area. To date, no missile-related equipment has been observed at Site C.

TRAINING SITE

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The Training Site (Figure 9) is located approximately 10,300 feet south of Launch Site A at 41-02-02N 100-30-36E. It was present in [redacted] and consists of 6 unrevetted launch positions and an unrevetted guidance area. Numerous vehicle tracks connect the main launch area

25X1 25X1

Table 2. Chronology of Activity (Mission-by-Mission), SAM Launch Sites, SCTMTC

	First photographic coverage of SCTMTC Sam Launch Complex. Although mission is interpretably poor, 2 fan-configured SA-2 sites can be identified. The southern site is designated SAM Launch Site A and the northern site is designated SAM Launch Site B. Each site has 6 launch positions, a guidance area, and a vehicle-hold revetment.
	The SAM complex can only be identified.
	The SAM complex can only be identified.
	Better coverage than [redacted] however, specific identification of equipment is not possible. Both sites are probably complete. No equipment appears to be present in the launch positions of either site. Unidentified (U/I) equipment is present in the guidance area of Site A. A structure and a U/I vehicle/piece of equipment are present in the guidance area of Site B. Two U/I vehicles/pieces of equipment are present in the hold revetment of Site B.
	First [redacted] coverage of SAM complex reveals 2 completed SA-2 sites. Launch Site A is unoccupied. At Launch Site B, the 6 launch positions are occupied, probably by SA-2 launchers; 1 U/I piece of equipment is present in the guidance area; and the hold revetment appears to be occupied by 2 U/I objects.
	No missile-related activity is observed at the launch area.
	Both sites are unoccupied.
	Both sites appear to be unoccupied.
	Occupancy of Sites A and B cannot be determined because of obliquity of photography. U/I scarring is observed in front of Site A.
	Both Launch Sites A and B appear to be unoccupied.
	Both Launch Sites A and B appear to be unoccupied.
	One launch position at each site appears to be occupied. The guidance area and the hold revetment at both sites are unoccupied.
	Site A is unoccupied. At Site B, 1 launch position appears to be occupied. One and possibly 2 objects are located in the guidance area behind the support building. The hold revetment is unoccupied.
	At Launch Site B, 2 launch positions have been revetted, with 1 revetted position served by a drive-by road. At Launch Site A, 2 and possibly 3 launch positions are occupied; the guidance area is occupied by unidentified equipment; and the hold revetment is unoccupied. At Launch Site B, the launch positions and the guidance area are probably unoccupied. The hold revetment contains no equipment.
	The occupancy of the launch positions at both Sites A and B is undetermined because of poor ground resolution. The guidance area at Site A contains U/I equipment, while the guidance area at Site B is probably unoccupied. The hold revetment at Site B appears to be unoccupied.
	At Launch Site A, none of the launch positions is occupied; the guidance area contains U/I equipment; and the hold revetment contains 3 or 4 probable vehicles. At Launch Site B, the launch positions are unoccupied; an unidentified object, probably radar, occupies the guidance area; and the hold revetment contains 1 U/I vehicle/piece of equipment.
	The occupancy of the launch positions at both sites cannot be determined because of heavy cloud shadow. The guidance area and the hold revetment at Site A contain U/I vehicles/pieces of equipment. The guidance area at Site B is possibly occupied and the hold revetment is unoccupied.
	The launch area is covered by haze and scattered clouds. The launch positions at both sites appear to be unoccupied. The guidance area at Site A contains U/I equipment and the guidance area at Site B is occupied by a U/I object. The hold revetment at Site A contains 3 or 4 probable vehicles and the hold revetment at Site B is unoccupied.
	None of the launch positions at either site appears to be occupied. The guidance area and the hold revetment at Site A are occupied by U/I vehicles/pieces of equipment. The guidance area at Site B contains a possible radar and the hold revetment is unoccupied.
	Launch Site A has 4 launch positions occupied, probably by SA-2 launchers; the guidance area contains several U/I vehicles/vans;and the hold revetment is occupied by at least 4 probable missile transporters. Launch Site B has 1 launch position occupied; a probable radar is in the guidance area; and 6 U/I vehicles occupy the hold revetment.
	None of the launch positions at Site A is occupied; the guidance area contains several U/I vehicles/vans; and several probable vehicles occupy the hold revetment. At Site B, the 2 revetted launch positions and 2 other positions are occupied, probably by SA-2 launchers; a probable radar is observed in the guidance area; and several small pieces of equipment occupy the hold revetment.
	At Launch Site A, 5 launch positions are occupied, probably by launchers; the guidance area is occupied by several U/I vehicles/vans;and the hold revetment contains 6 U/I pieces of equipment. At Launch Site B, all 6 launch positions are occupied, probably by launchers; the guidance area contains 1 U/I piece of equipment; and the hold revetment contains 6 U/I pieces of equipment.
	At Site A, 4 launch positions are occupied by probable launchers and 2 probable transporters are observed at 2 launch positions. The guidance area continues to be occupied by an U/I object, probably radar; and several vehicles occupy the hold revetment. At Site B, 4 launch positions are occupied; the guidance area contains 1 U/I object;and the hold revetment is unoccupied.
	At Site A, 3 and possibly 4 launch positions are occupied. Two probable missile transporters are observed at 2 launch positions. Several U/I vehicles/vans occupy the guidance area; and several vehicles/pieces of equipment occupy the hold revetment. At Site B, 4 launch positions are occupied by probable launchers; a U/I object occupies the guidance area; and the hold revetment is unoccupied.
	At Site A, 4 launch positions are occupied. Two probable missile transporters again observed at 2 launch positions. The guidance area and hold revetment at Site A are occupied by equipment. At Site B, at least 2 launch positions are occupied; the guidance area contains a probable radar; and the hold revetment remains unoccupied.
	At Site A, 3 and possibly 4 launch positions are occupied. Two probable transporters are parked on the ring roads opposite 2 of the launch positions. The guidance area contains at least 5 vehicles/vans and the hold revetment contains several vehicles/pieces of equipment. At Site B, no launch positions are occupied; a probable radar occupies the guidance area; and the hold revetment is unoccupied.
	At Site A, 5 launch positions are occupied by probable launchers; the guidance area contains several vehicles/pieces of equipment;and the hold revetment contains U/I vehicles/pieces of equipment. At Site B, 5 launch positions are occupied including both revetted positions; the guidance area is occupied by a U/I object, probably radar; and the hold revetment contains several U/I vehicles/pieces of equipment.
	At Site A, 3 and possibly 4 launch positions are occupied. Two launch positions have a probable transporter parked adjacent on the ring road. The guidance area and the hold revetment contain several vehicles/pieces of equipment. At Site B, 4 launch positions,including 1 revetted launch position, are occupied; the guidance area is occupied by a probable radar; and the hold revetment is occupied by U/I pieces of equipment.
	Launch Site A has at least 4 launch positions occupied. Probable transporters are observed parked on the ring road opposite 2 launch positions. The guidance area and the hold revetment at Site A contain several U/I vehicles/pieces of equipment. Launch Site B has 5 launch positions occupied; including both revetted positions. The guidance area contains a probable radar and the hold revetment contains several U/I pieces of equipment.
	The launch area can only be identified.
	Occupancy of launch positions at both sites is undetermined because of haze and scattered clouds. The guidance area and the hold revetment of Site A contain U/I vehicles/pieces of equipment. Launch Site B appears to be unoccupied.
	Both launch sites are unoccupied.
	Except for the guidance area at Site A, where several U/I vehicles/pieces of equipment can be observed, poor ground resolution permits identification only of the launch area.
	Launch Site A launch positions are unoccupied. The guidance area contains several vehicles/pieces of equipment and the hold revetment contains 1 U/I piece of equipment. At Launch Site B, 1 revetted position is occupied, with 1 other position possibly occupied. The guidance area is unoccupied, as is the hold revetment.
	At Launch Site A, 1 and possibly 2 launch positions are occupied; the guidance area contains several vehicles/pieces of equipment; and the hold revetment is occupied by 1 probable vehicle. At Launch Site B, only the hold revetment is occupied, probably by a vehicle.
	At Site A, 1 launch position is occupied; the guidance area contains at least 3 U/I vehicles/pieces of equipment; and the hold revetment contains several probable vehicles. At Site B, no launch positions are occupied; the guidance area and the hold revetment are unoccupied.
	Identification of SAM Launch Sites only as heavy clouds and haze cover the area.
	At Site A, 2 and possibly 3 launch positions are occupied; the guidance area contains several U/I vehicles/pieces of equipment; and the hold revetment contains at least 1 U/I piece of equipment. At Site B, 1 launch position is possibly occupied; a U/I object is in the guidance area; and the hold revetment contains at least 3 vehicles/pieces of equipment.
	At Site A, 3 launch positions are occupied; several vehicles/pieces of equipment occupy the guidance area; and the hold revetment contains 2 U/I objects. At Site B, 2 launch positions are occupied, including 1 revetted launch position; a probable radar occupies the guidance area in front of the support building; and 3 or 4 probable transporters and 2 or 3 pieces of equipment occupy the hold revetment.
	Best coverage since [redacted] At Launch Site A, 4 launch positions contain SA-2 launchers. The guidance area contains 1 probable FAN SONG radar, 4 vans and 4 other vehicles. The hold revetment contains 2 U/I pieces of equipment. At Launch Site B, 5 launch positions contain SA-2 launchers; the guidance area is occupied by a FAN SONG-type radar; and the hold revetment contains 10 SA-2 missile transporters and 2 sets of bogie wheels.

At Site A, occupancy of the launch positions is undetermined; the guidance area contains several probable vehicles/vans; and the hold revetment is occupied by at least 2 or 3 vehicles/pieces of equipment. At Site B, 1 revetted launch position is possibly occupied; a U/I object, probably radar, is observed in front of the support building in the guidance area; and at least 3 vehicles/pieces of equipment occupy the hold revetment.

Launch Site A has at least 1 launch position occupied; numerous U/I vehicles/vans in the guidance area; and 2 U/I pieces of equipment in the hold revetment. At Launch Site B, the 2 revetted launch positions are occupied; a probable radar occupies the guidance area in front of the support building; and the hold revetment contains at least 3 missile transporters and several pieces of equipment.

Occupancy of launch positions at Site A is undetermined; the guidance area contains numerous vehicles/vans; and the hold revetment is occupied by 3 probable vehicles. At Site B, 1 revetted position is possibly occupied; a probable radar occupies the guidance area in front of the support building; and the hold revetment contains at least 3 probable missile transporters.

At Site A, 2 launch positions are probably occupied; the guidance area contains several vehicles/vans; and the hold revetment is occupied by at least 3 probable missile transporters. At Site B, 1 revetted launch position and possibly 1 other position are occupied; a probable radar is in the guidance area; and the hold revetment contains at least 3 probable missile transporters and 2 or 3 pieces of equipment.

Second [redacted] coverage. At Launch Site A, 3 launch positions contain SA-2 launchers and 3 positions are unoccupied. A FAN SONG radar and 9 electronic support vans and trucks occupy the guidance area. The hold revetment contains a total of 6 SA-2 missile transporters (4 are probably unoccupied, 1 is canvas covered, and 1 is without prime mover), 1 SA-2 launcher, 2 sets of bogie wheels used for transporting launchers, and 4 U/I probable vans. At Launch Site B, 1 revetted launch position and 2 other positions contain SA-2 launchers. Three positions are unoccupied. A FAN SONG radar is in front of the support building in the guidance area. The hold revetment contains 3 SA-2 missile transporters (1 is occupied by an SA-2 missile, 1 is unoccupied, and 1 is canvas covered without prime mover) and 2 sets of bogie wheels.

Three launch positions at Site A are probably occupied; the guidance area contains numerous vehicles/vans; and the hold revetment contains several vehicles/pieces of equipment. At Site B, 1 launch position is probably occupied; the occupancy of the guidance area is undetermined; and the hold revetment contains 2 or 3 U/I vehicles/pieces of equipment.

At Site A, occupancy of launch positions is undetermined; the guidance area contains several U/I vehicles/pieces of equipment; and the hold revetment contains U/I vehicles/pieces of equipment. At Site B, occupancy of the launch positions is undetermined; the guidance area occupancy cannot be determined due to cloud shadow; and the hold revetment is occupied by several vehicles/pieces of equipment.

Occupancy of the launch positions at both sites is undetermined. The guidance area and the hold revetment at Site A are occupied by U/I equipment. At Site B, a probable radar is in the guidance area and the hold revetment is occupied by at least 1 U/I vehicle/piece of equipment.

The SAM launch area can only be identified.

At Site A, the launch positions are probably unoccupied; the guidance area contains several U/I vehicles/pieces of equipment; and the hold revetment contains at least 2 U/I vehicles/pieces of equipment. At Site B, 1 revetted launch position is probably occupied; the guidance area contains a probable radar; and the hold revetment contains 1 U/I vehicle/piece of equipment.

At Site A, the launch positions are probably unoccupied; the guidance area contains several vehicles/pieces of equipment; and the hold revetment contains several probable missile transporters. At Site B, 1 revetted position appears to be occupied; the guidance area contains a probable radar; and the hold revetment contains several probable missile transporters.

At Site A, 1 and probably 2 launch positions are occupied; the guidance area contains several U/I vehicles/pieces of equipment; and the hold revetment contains at least 4 probable vehicles. At Site B, 3 launch positions are occupied; the guidance area contains a probable radar; and the hold revetment contains 3 probable vehicles.

The launch positions at both sites are probably unoccupied. At Site A, the guidance area contains several U/I vehicles/pieces of equipment and the hold revetment contains several vehicles/pieces of equipment. At Site B, the guidance area contains 3 U/I pieces of equipment and the hold revetment is occupied by at least 1 vehicle/piece of equipment.

The launch positions at both sites appear to be unoccupied. Several vehicles/pieces of equipment occupy the guidance area at Site A and the hold revetment contains at least 5 vehicles/pieces of equipment. At Site B, 2 U/I objects are observed in the guidance area and the hold revetment contains 2 U/I probable vehicles.

The launch positions at both sites are probably unoccupied. At Site A, the guidance area contains several U/I vehicles/pieces of equipment and the hold revetment contains at least 3 U/I vehicles/pieces of equipment. At Site B, 2 U/I objects occupy the guidance area and 2 U/I vehicles/pieces of equipment are observed in the hold revetment.

At Site A, 1 and possibly 2 launch positions are occupied; the guidance area contains several U/I vehicles/pieces of equipment; and 3 U/I vehicles/pieces of equipment occupy the hold revetment. At Site B, the launch positions appear to be unoccupied; 2 U/I objects are observed in the guidance area; and 2 U/I vehicles/pieces of equipment occupy the hold revetment. A new cable scar or ditch is apparent just south of Site B.

The SAM launch area is covered on the index camera of this mission. A new possible launch site located between Sites A and B is evident.

A new launch site under construction, located between Sites A and B, is confirmed on this mission. It is designated SAM Launch Site C. No launch positions or hold revetment are evident at this time. A probable cable scar extends from Site C to the fire control buildings at both Sites A and B. At Launch Site A, 3 launch positions are occupied; the guidance area contains at least 4 U/I vehicles/pieces of equipment; and the hold revetment contains 5 U/I vehicles/pieces of equipment. At Launch Site B, 2 and possibly 3 launch positions are occupied; the guidance area contains 1 U/I object; and the hold revetment contains 3 U/I vehicles/pieces of equipment. A small support building has been constructed since [redacted] near the security gate at Site B.

At Site A, 3 launch positions are occupied; the guidance area contains several U/I vehicles/pieces of equipment; and the hold revetment is occupied by 4 U/I vehicles/pieces of equipment. At Site B, 2 and probably 4 launch positions are occupied; a probable radar is observed in the guidance area in front of the support building; and the hold revetment contains 2 U/I vehicles/pieces of equipment.

At Launch Site C, a rectangular guidance area, probably concrete surfaced, is apparently complete. No launch positions are discernible. At Site A, 4 launch positions are occupied; the guidance area contains several U/I vehicles/vans; and the hold revetment contains several vehicles/pieces of equipment. At Site B, 2 and possibly 3 launch positions are occupied; the guidance area appears to be unoccupied; and the hold revetment contains 3 or 4 pieces of U/I equipment (possibly bogie wheels).

At Site C, no apparent change in construction activity is observed. At Site A, 3 launch positions are occupied; the guidance area is occupied by several vehicles/vans; and the hold revetment contains at least 6 vehicles/pieces of equipment. At Site B, 3 and probably 4 launch positions are occupied; the guidance area is unoccupied; a U/I object is located between the guidance area and the southern revetted launch position; and the hold revetment contains 3 or 4 U/I pieces of equipment.

At Site C, scarring activity indicates a 5-launch-position site. At Site A, at least 1 launch position is occupied; several vehicles/vans occupy the guidance area; and the hold revetment contains several U/I vehicles/pieces of equipment. At Site B, 2 launch positions are occupied; the guidance area is unoccupied but a U/I object is observed on the ring road leading to the south revetted launch position; and the hold revetment contains 2 or 3 U/I pieces of equipment.

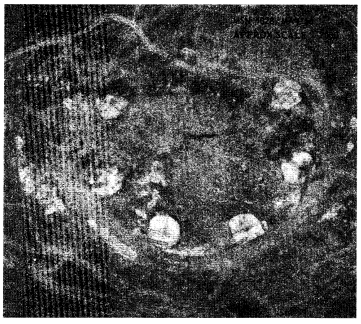
Sites A and C are cloud covered. At Site B, at least 1 launch position is occupied; the guidance area contains a U/I object; and the hold revetment contains at least 1 U/I vehicle/piece of equipment.

At Site A, 5 launch positions are occupied; the guidance area is occupied by several vehicles/vans; and the hold revetment contains at least 4 vehicles/pieces of equipment. At Site B, 1 revetted launch position and 1 other position are occupied; the guidance area contains a probable radar; 3 U/I vehicles/vans are observed on the ring road leading from the guidance area to the south revetted launch position; and the hold revetment contains 3 or 4 U/I vehicles/pieces of equipment. Two additional support buildings have been constructed at the security gate at Site B since [redacted] No change is observed at Launch Site C.

Site A has 5 launch positions occupied; several vehicles/vans in the guidance area; and 3 vehicles/pieces of equipment in the hold revetment. Site B has 2 launch positions occupied; a U/I object in the guidance area; and 1 probable vehicle in the hold revetment. Two support buildings, like those at Site B, added at Site A security gate since [redacted] No apparent change observed at Site C.

[redacted]

At Launch Site A, at least 3 launch positions are occupied; the guidance area contains several vehicles/vans; and the hold revetment is occupied by at least 5 vehicles/pieces of equipment (3 are probably transporters). At Launch Site B, at least 2 launch positions are occupied; the guidance area contains a U/I object; 3 probable vans are on the ring road leading to the south revetted launch position; and the hold revetment contains at least 5 vehicles/pieces of equipment (2 are probably transporters). No change is observed at Launch Site C.



ITEM	DESCRIPTION	DIMENSIONS (FT) MAX - MIN DIAM
1	HARD-SURFACED PAD	80 - 75
2	HARD-SURFACED PAD	90 - 80
3	HARD-SURFACED PAD	90 - 90
4	HARD-SURFACED PAD	80 - 75
5	HARD-SURFACED PAD	90 - 85
6	HARD-SURFACED PAD	85 - 80

±10

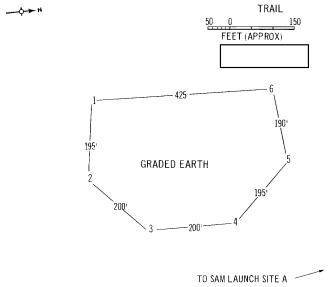
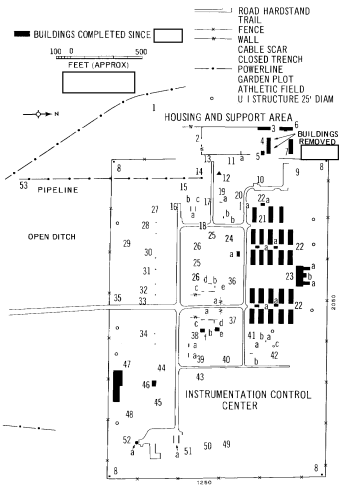


FIGURE 9. TRAINING SITE, SAM LAUNCH AREA, SCTMTC.



ITEM	DESCRIPTION	DIMENSIONS (FT)
1	SHED	
2	ONE-STORY PITCH-ROOFED STORAGE BUILDING (5)	
a	BAY	
3	ONE-STORY PITCH-ROOFED STORAGE BUILDING	
4	ONE-STORY PITCH-ROOFED STORAGE BUILDING	
5	SHED	
6	ONE-STORY PITCH-ROOFED STORAGE BUILDING	
7	ONE-STORY PITCH-ROOFED STORAGE BUILDING	
8	GUARD TOWER (4)	
9	ONE-STORY PITCH-ROOFED VEHICLE MAINTENANCE AND STORAGE BUILDING	

ITEM	DESCRIPTION	DIMENSIONS (FT)
10	SHED	
11	SHED	
12	WATER TOWER	
13	SHED	
14	SHED	
15	EARTH-COVERED WATER TANK	
16	ONE-STORY GABLE-ROOFED H-SHAPED BARRACKS	
a	CROSSBAR CENTER SECTION	
b	LEG	
c	LEG	
17	SHED	
18	SHED	

ITEM	DESCRIPTION	DIMENSIONS (FT)
19	ONE-STORY RIDGE-ROOFED SUPPORT BUILDING	
a	SHED	
b	SHED	
20	ONE-STORY RIDGE-ROOFED SUPPORT BUILDING	
a	SHED	
b	SHED	
21	ONE-STORY GABLE-ROOFED BARRACKS (3)	
22	ONE-STORY GABLE-ROOFED BARRACKS (20)	
a	SHED	
23	TWO-STORY GABLE-ROOFED ADMINISTRATION BUILDING	
a	EXTENSION	
b	CENTER EXTENSION	

ITEM	DESCRIPTION
24	ONE-STORY FLAT-ROOFED SUPPORT BUILDING
a	EXTENSION
25	TWO-STORY GABLE-ROOFED BARRACKS (2)
26	TWO-STORY GABLE-ROOFED BARRACKS (2)
27	CONCRETE RECTANGLE
28	BASKETBALL COURT
29	OVAL-SHAPED FIELD
30	CONCRETE RECTANGLE
31	BASKETBALL COURT
32	BASKETBALL COURT
33	CONCRETE RECTANGLE
34	BASKETBALL COURT
35	SECURITY BUILDING
36	ONE-STORY GABLE-ROOFED T-SHAPED MESSHALL
a	CROSSBAR
b	STEM
c	SHED
d	SHED (REMOVED FALL 66)
e	SHED
37	ONE-STORY GABLE-ROOFED T-SHAPED MESSHALL
a	CROSSBAR
b	STEM
c	SHED
d	SHED (REMOVED [redacted])
e	SHED
f	SHED UNDER CONSTRUCTION
38	TWO-STORY GABLE-ROOFED BARRACKS
39	ONE-STORY GABLE-ROOFED BARRACKS
a	BAY (2)
40	ONE-STORY GABLE-ROOFED SUPPORT BUILDING
41	ONE-STORY GABLE-ROOFED SUPPORT BUILDING
a	SHED
42	HEATING PLANT
a	SHED
b	STACK
43	SHED
44	ONE-STORY FLAT-ROOFED SUPPORT BUILDING
45	ONE-STORY FLAT-ROOFED SUPPORT BUILDING
46	SHED
47	FLAT-ROOFED VEHICLE STORAGE BUILDING
48	ONE-STORY FLAT-ROOFED SUPPORT BUILDING
49	ONE-STORY FLAT-ROOFED SUPPORT BUILDING
50	ONE-STORY FLAT-ROOFED SUPPORT BUILDING
51	INSTRUMENTATION CONTROL BUILDING
a	ROOF PLATFORM
52	RADAR "A" BUILDING
a	RADOME
53	PUMPHOUSE

*APPROXIMATE

FIGURE 10. SAM HOUSING AND SUPPORT AREA, AND INSTRUMENTATION CONTROL CENTER, SCTMTC.

ITEM DESCRIPTION DIMENSIONS (FT)

ITEM	DESCRIPTION	DIMENSIONS (FT)
1	SHED	
2*	FLAT-ROOFED POSSIBLE GENERATOR BLDG	
3a*	BUILDING	
b	BAY	
4a	INSTRUMENTATION BUILDING	
b	RAISED PLATFORM DECK	
5	SHED	
6	EARTH-COVERED WATER TANK	
7	SECURITY BUILDING	
8	BASKETBALL COURT	
9	FLAT-ROOFED VEHICLE SHED	
10	SHED	

*CONSTRUCTED BETWEEN [redacted]

ROAD
CABLE SCAR
FENCE
50 0 150
FEET (APPROXIMATE)
TO INSTRUMENTATION SITE 3

FIGURE 11. SAM INSTRUMENTATION SITE 2, SCTMTC.

SCALE APPROX 1:8000 [redacted]

ITEM	DESCRIPTION	DIMENSIONS (FT)
1*	BUILDING	90 X 20
2	BUILDING	
3	SHED	20 X 20

*CONSTRUCTED, [redacted]

TO INSTRUMENTATION SITE 3

TRAIL
BURIED CABLE
50 0 150
FEET (APPROXIMATE) [redacted]

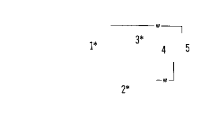
FIGURE 12. SAM INSTRUMENTATION SITE 6, SCTMTC.

SCALE APPROX 1:7500 [redacted]

ITEM	DESCRIPTION	DIMENSIONS (FT)
1*	BUILDING	
2*	BUILDING	
3*	BUILDING	
4	SHED	
5	STRUCTURE	

*CONSTRUCTED [redacted]

TO INSTRUMENTATION SITE 5



DIRT ROAD
BURIED CABLE
WALL
50 0 150
FEET (APPROXIMATE) [redacted]

FIGURE 13. SAM INSTRUMENTATION SITE 7, SCTMTC.

with the site. No SAM equipment has been observed, to date, at the training site.

SAM HOUSING AND SUPPORT AREA

The SAM Housing and Support Area (Figure 10) is located at 41-04-52N 100-29-02E approximately 1.5 nm west of SAM Launch Site B. In addition to the Instrumentation Control Center, the area contains a housing section, a vehicle maintenance and storage area, a heating plant, a water supply facility, and a water/waste disposal unit. When first observed in [redacted] the area contained a total of 15 buildings. Since that time numerous buildings have been constructed, bringing the total to approximately 60 buildings. These additional buildings appeared in the following chronological order (Figure 10):

1. One barracks (Item 39) was observed externally complete in [redacted]
2. Two storage buildings (Items 24 and 40) were added in [redacted]
3. Five storage buildings (Item 2) were observed externally complete in [redacted]
4. Three support buildings (Items 44, 45, and 48) were constructed in [redacted] near the main instrumentation control building.
5. A total of approximately 40 buildings including 23 barracks (Items 21 and 22), 1 administration building (Item 23), 5 support buildings (Items 3-7), and 1 vehicle storage building (Item 47) have been constructed since [redacted]

Although vehicles have been observed in the area on various missions, the largest number was evident on [redacted] when 20 cargo/dump trucks and 4 SA-2 transporter trailers were present. Electronic support vehicles have been observed consistently about the main instrumentation control building at the east end of the Housing and Support Area since [redacted]

Garden plots are clustered throughout the area, with the majority adjacent to the water supply facility. New plots were added along the south side of the area during spring [redacted] The water/waste disposal unit is also used in conjunction with gardening.

Recreational facilities include 4 basketball courts

and an oval-shaped athletic field on the south side of the area. Two additional courts were installed during the summer of

A walled electric power substation, present in is located at the junction of the road to the SAM Housing and Support Area and the road to the SAM launch sites. A power transmission line connects to the substation from the north, bypassing the SAM Housing and Support Area. Another powerline leads into the SAM Housing and Support Area, probably from the main Shuang-cheng-tzu thermal-electric powerplant several miles to the west.

SAM INSTRUMENTATION FACILITIES

The SAM Instrumentation Facilities are composed of 6 downrange sites and an instrumentation control center. The downrange sites form a bell-shaped pattern, with the easternmost site approximately 23 nm from the SAM Launch Area. The control center (Figure 10) is 1.25 nm west of Launch Site B at the east end of the SAM Housing and Support Area. It consists of a control building with an unidentified object on a raised rooftop platform, and 2 small support buildings. A Radar "A" structure is located just south of, and parallel to, the concrete vehicle apron. Electronic vehicles and vans usually have been observed parked in pairs on the concrete apron and adjacent to the Radar "A". Two of the vans, as observed on are cable-connected to the main control building and have a possible side-mounted antenna. Other vans, some probably used for communications, are often parked near the main control building. The chronological presence of electronic vans at the control center is shown in Table 3.

Downrange Instrumentation Sites 2 (Figure 11), 3, 4, and 5 are virtually mirror-image, and consist of an instrumentation building, a vehicle shed, a buried water tank, a security gatehouse, and 5 unidentified structures. Two of these structures were constructed at each site between All 4 sites are secured by a single fence. Sites 2 and 4 each contain a basketball court constructed in mid

Instrumentation Sites 6 and 7 have extended the SAM range to 23 nm. Site 6 (Figure 12) is located at 41-11-

Next 1 Page(s) In Document Exempt

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10N 101-00-36E and was first observed in [redacted]. It can be negated in [redacted] since no evidence of the site was then present. The site consists of 1 large building and 2 small buildings connected by cable scar and an ungraded dirt road to Instrumentation Site 3. Instrumentation Site 7 (Figure 13) is located at 40-57-40N 100-58-59E and was first observed in [redacted]. It can be negated in [redacted]. The site consists of 2 large buildings and 3 small buildings connected by cable scar and ungraded dirt road to Instrumentation Site 5. Modification of Sites 6 and 7, consisting of the construction of the large building at Site 6 and 3 of the buildings at Site 7, was observed to be complete in [redacted]. To date, no optical tracking equipment has been discernible at either site.

DEPLOYED SA-2 SITE AND BARRACKS AREA

Located in the approximate center of the SSM/SAM rangehead, the area contains a deployed SA-2 site for defense of the test center, and a large barracks area (Figure 14).

The star-configured SA-2 site has 6 unrevetted launch positions and an unrevetted guidance area. Since the site was first observed in [redacted] it has appeared inactive except when covered on [redacted]. On that date, 1 launch position and the guidance area were occupied by unidentified probable equipment. A group of small probable bivouac tents, typical of several Chinese deployed SAM sites, appeared adjacent to the site in [redacted] and was still present in [redacted].

The Barracks Area (Figure 15) is located 3,000 feet southwest of the SA-2 site and presently contains approximately 150 administration, barracks, and maintenance support buildings. Approximately 85 structures have been constructed since [redacted]. Of these new buildings, 55 are barracks/support types and the remainder are storage structures, sheds, and additions to previously constructed buildings. The only type of vehicle observed in the area has been the open-bed cargo/dump truck; large numbers, approximately 50-60, have been parked throughout the area since [redacted]. The presence of these vehicles coincides with the period of construction in the Barracks Area and the SAM Launch Area.

Next 1 Page(s) In Document Exempt

Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010026-6

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MAPS OR CHARTS

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25X1 1. NPIC. [redacted] *SSM Housing and Support Area and Operational Support Facilities, Shuang-cheng-tzu Missile Test Center, China,* [redacted] 25X1
25X1 (TOP SECRET [redacted]

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REQUIREMENT

CIA. C-DI6-83,404 (revised)

NPIC PROJECT

11688/66 (partial answer)